

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	13063836
<b>Application Number:</b>	08931125
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	3842
<b>Title of Invention:</b>	MEMORY SYSTEM FOR IMPROVING DATA INPUT/OUTPUT PERFORMANCE AND METHOD OF CACHING DATA RECOVERY INFORMATION
<b>First Named Inventor/Applicant Name:</b>	HAE-SEUNG LEE
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<b>Filer:</b>	Justin William Zahrt
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	P54508
<b>Receipt Date:</b>	20-JUN-2012
<b>Filing Date:</b>	16-SEP-1997
<b>Time Stamp:</b>	16:29:59
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
<b>File Listing:</b>	

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	GPoA_Signatory.pdf	174697 a1815a5ae521600463d622502018d9e3e1077bc388	no	1

**Warnings:**

**Information:**

2		20847-00.pdf	4004787 a8790c512b1a95676fa375c9f0adfabce94afabe	yes	2
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**Multipart Description/PDF files in .zip description**

Document Description	Start	End
Power of Attorney	1	1
Assignee showing of ownership per 37 CFR 3.73(b).	2	2

**Warnings:**

**Information:**

<b>Total Files Size (in bytes):</b>	4179484
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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.